



Device stops bombs on wheels



JACQUELINE MCBRIDE/NEWSLINE

The remote control truck stopping device is demonstrated for the local news media at the Lab.

Bringing a speeding big rig truck to a screeching halt with the push of a button, researchers at the Laboratory demonstrated Tuesday the “next generation” truck-stopping device designed to protect sensitive facilities potentially targeted by terrorists.

The work on the truck stopping device at the lab was supported by the California Highway Patrol (CHP) and the California Energy Commission to prevent tankers and other

See **TRUCK**, page 7

From climate to fusion, Laboratory symposia featured at AAAS meeting

By David Schwoegler

NEWSLINE STAFF WRITER

From February 17–21 in the nation’s capital, the annual meeting of the American Association for the Advancement of Science offered a unique and exciting blend of more than 150 symposia. No other scientific meeting brings together such breadth of science, engineering and technology from the world’s premier researchers.

In this interdisciplinary event, participants learned the newest results in genome sciences or nanotechnology. They also toured the farthest reaches of space to understand the origins of our universe or the depths of the world’s ocean. They also heard from prominent leaders of national and international science.

The symposia and lectures featured talks by the best and the brightest members of the global scientific, engineering and technology communities. At this meeting, colleagues could share interests. They also provided a forum to hear the latest results from top laboratories and gain insights into the impact of science, engineering and technology on society.

On Friday afternoon, Ed Moses joined other participants in a session called “Fusion: Energy Source for the Future?” Moses presented “The National Ignition Facility: Exploring ICF Burning Plasmas in the Laboratory,” in which he examined

See **AAAS**, page 8

UCLA physicist Edward Wright to present DDLS talk on the ‘Origins of the Universe’

Edward L. Wright, professor of physics and astronomy at UCLA, will deliver a Director’s distinguished Lecturer Series presentation entitled “Observing the Origin of the Universe” at 3:30 p.m. Thursday, March 3 in the Bldg. 123 auditorium.

The cosmic microwave background radiation left over from the Big Bang is an almost perfect blackbody with a temperature only a few degrees above absolute zero. NASA’s Cosmic Background Explorer (COBE) satellite, launched in 1989, discovered tiny fluctuations (several parts per million) in the temperature of this radiation in different parts of the sky. These temperature differences account for the density and gravitational potential perturbations created during the first trillionth of a second of the existence of the universe.

The tiny fluctuations have grown to become the galaxies and clusters of galaxies we see in the

See **DDLS**, page 8

Cadets mobilize for ROTC Day



JACQUELINE MCBRIDE/NEWSLINE

Erik Jones from the Defense Sciences Engineering Division discusses his project about unmanned air vehicles (UAV’s) with participants during the Lab’s sixth annual ROTC Day held on Feb. 17. About 60 undergraduate cadets and midshipmen from colleges and universities in California and Texas toured Lab facilities and attended panel discussions.



**History bowl
battle of the buzzers**

— Page 3



**A clear view of
Vision Services**

— Page 4



**Celebrating Black
History Month**

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Tuesday
1

The Lab's **Microcentury Toastmaster's Club** will hold its annual International Speech and Extemporaneous Speaking contest today at noon in the Bldg. 361 auditorium. Interested employees are invited to attend. For more information, contact Jeff Morris, 2-0176, or Ing Chiu, 2-7102.

Wednesday
2

Jodi Bjurman, Registered Dietician, will present **"Life in the Fast Lane: A Guide to Healthy Eating"** at noon Wednesday, March 2 in the Bldg. 361 auditorium. See page 5 for more details about the presentation sponsored by Worklife Programs.

Friday
4

Today is the first deadline for submitting FY06 proposals in the **LDRD Strategic Initiative (SI)** category of the Laboratory Directed Research and Development (LDRD) Program. Preproposals for new SI projects and full proposals for continuing SI projects are due to Nancy Campos (campos1@llnl.gov, ext. 2-9805) in the LDRD Program office by close of business. For further information about SI proposals, contact Nancy or go to the LDRD Web page at <https://lsto.llnl.gov/Proposals/ProposalHome.pl>. The SI competition is open to all LLNL scientists, engineers, and technical staff.

Up
&
Coming

B Division and LLLWA's **spring book sale** will return March 14-18, 11:30 a.m. to 1:30 p.m., in Bldg. 132, room 1200 (Q or L-cleared access only). Used books, videos, CDs, DVDs, puzzles and books-on-tape are needed. All proceeds are used to buy Christmas gifts for needy children in Livermore, Oakland, Concord and San Joaquin County, as well as fund LLLWA scholarships. Collection boxes are available in Bldg. 113, north entrance; Bldg. 132, lobby; Bldg. 253, room 1531; Bldg. 543, Library; Bldg. 551 and Bldg. 663 (Health Services). You can also contact Lynn Groves, 2-1684, or Edith Greene, 3-0252, with questions regarding donations.

...

Livermore Valley Joint Unified School District (LVJUSD) is seeking judges for the **"Science Odyssey"** science fair geared for students in grades K-12, on March 8th from 6:30 to 8:30 p.m. at Junction Avenue Middle School. Judges should arrive at 4:00 p.m. and stay at least until 6:30 p.m. Judges will be given a brief orientation and specific guidelines for questioning students, as well as scoring rubrics. T-shirts and a hot dog dinner will be provided. If you are interested in volunteering, contact Frankie Tate at 606-4800 or ftate@livermore.k12.ca.us.

First Subcontractor of the Year award



MARK SUEKSDORF

Plant Engineering and Procurement Department Heads Ed Helkenn (left) and Ed Cunniffe (right) present the 2004 Subcontractor of the Year Award to a representative from B&B Grading and Paving, Inc., during a January Construction Subcontractor Partnering Workshop. The awards were based on subcontractor performance in various areas including adherence to safety requirements, quality of workmanship, cooperation with Lab personnel, schedule adherence and responsiveness.

Institutional support for Mac OS 9 has ended

Institutional support for Macintosh systems running operating system version 9 or earlier is no longer provided. The CIO and the Information Architecture Advisory Board (IAAB) approved ending institutional support for Macintosh systems running operating system version 9 (OS 9) or earlier in December. This decision resulted from implementation of the Laboratory's defined system lifecycle support process, documented on the Desktop Advisory Group (DAG) web site at <http://www-r.llnl.gov/icc/dag/support.html>.

Ending support may impact Macintosh users still running the older operating system in several areas: institutional help desks will no longer provide support; operating system images will no longer be created or supported; and new releases of business applications such as LITE and Extensity will no longer be developed, tested and ensured to work on OS 9 systems. Computer system support provided by your local support technicians will continue at the program's discretion.

The system support lifecycle is designed to improve security and decrease institutional support costs. Security is increased by ensuring LLNL is using operating systems that are still maintained and supported by the vendor (e.g., security fixes are provided). Cost savings result from reducing the number of operating system types that business applications are developed for and by decreasing the complexity of the desktop and network support environment.

Newsline

Newsline is published weekly by the Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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Web site: <http://www.llnl.gov/pao/>

Did you
know?

It is illegal to
operate a cellular phone
in Q-cleared areas.

AROUND THE LAB



Lab Services wins history bowl 'battle of buzzers'

As part of Black History Month, the Association of Black Laboratory Employees (ABLE) and the Lab's Worklife Program Office co-sponsored this week's African History Bowl. Preliminary rounds were held with teams of four employees representing the following directorates and organizations: AHRD, Engineering, Energy & Environment, Lab Services, NAI, Security, and the Directors Office. The teams were provided with study guides prior to the competition.

Going into the final round on Thursday at noon in the Bldg. 123 auditorium were the teams representing AHRD, the Director's Office, and Lab Services. Hanif Nassor-Covington of Business Services served as competition coordinator and moderator and said that based on the outcome of the preliminary rounds, he was ready for a "battle of the buzzers" at the finals.

The winning team that captured the most points was from Lab Services. As a reward, they receive, on behalf of their directorate, an engraved plaque with team picture to be displayed for one year until next year's African History Bowl.

The history bowl tested the teams' quick recall of facts related to African and African-American history. Teams were given only seconds to respond.

Nassor-Covington was pleased with the outcome and hopes to bring back the activity next year. "The goal of the History Bowl was to show the importance of history, bring together diverse teams, conduct a competition, and have fun. In addition, the study groups beforehand brought individuals on the teams closer together."



JACQUELINE MCBRIDE/NEWSLINE

And the winner is.....

The team from Lab Services Directorate (LSD) won this year's "African History Bowl." Team members were: Robin Walden, Jesse Pugh, Michele Quick, and Susan Battles.

BRIEFLY

Energy and Environment sponsors international symposium

The Laboratory's Energy and Environment Directorate and Osaka University will be co-sponsoring the 2nd International Symposium on Systems, Safety, Security and Reliability March 9-11 at the Westin San Francisco Airport Hotel.

The symposium is aimed at facilitating the development of new ideas and approaches to complex systems in the 21st century, supporting the creation and evaluation of engineered complex systems, integrating disciplines to provide solutions and building reliable capabilities for large-scale disasters. It serves as forum for researchers and engineers to discuss the latest theories, systems and applications. For more information or to register, go to the Website, <http://ssr.llnl.gov> or contact Sandra Maldonado, 3-0621.

Benefit concert for tsunami victims

Granada High School is sponsoring a benefit concert to raise money for the tsunami victims at 7:30 p.m. Saturday, March 12, at the First Presbyterian Church in Livermore. The suggested donation is \$5, and CDs will be sold for \$10. Proceeds will be donated to UNICEF. Support local musicians and help raise money for those in need overseas. For more information, visit www.livermorebenefit.org.

MMED offering tours of facilities and unique capabilities

The Manufacturing and Materials Engineering Division (MMED) in Engineering will conduct a series of tours of its fabrication and testing facilities for interested employees. Each tour will last approximately 2 1/2 hours. The goals are to:

- Inform people about the breadth of manufacturing, fabrication, and materials test capabilities in MMED.
- Give people a chance to meet some of the points of contact.
- Provide background on when to use MMED services.

MMED serves Laboratory programs by providing three basic capabilities: fabrication and assembly of components; nondestructive and destructive characterization of materials; and the design and construction of some of the world's most precise machines. Tours will be offered every other month for as long as there is interest. If you are interested in participating, call Diane Martz at 3-1981, or email martz3@llnl.gov to reserve a spot. Be sure to indicate if any employees without a Q clearance will be attending so escorts can be arranged. Each tour will be limited to 20 people.

Tri-Valley Science and Engineering Fair in need of judges

The ninth annual Tri-Valley Science and Engineering Fair needs enthusiastic and energetic scientists and engineers to help judge student projects. LLNL is a major organizing

sponsor of the fair. Judges are needed from 7:30 a.m. to 1:30 p.m. on Thursday, March 17, at the San Ramon Valley Conference Center in San Ramon. To volunteer, contact Connie Ruvalcaba-Olson, 4-4640, or ruvalcabaolson1@llnl.gov.

Extensity training available

Travel Services is no longer accepting paper expense reports. All travel expenses must be submitted via the Web using Extensity. Special Extensity training classes have been made available to facilitate the transition.

See the listing of classes below or go to the Web at http://www-r.llnl.gov/bsd/extensity/extensity_info.html.

If your organization needs special Extensity training, contact Cynthia Cordial at 3-9615.

BS3002—"Extensity expense reports"

March 9 Trailer 1879, room D

Session 1—8:30 a.m.—noon

Session 2—1:15—4:45 p.m.

March 29 Trailer 1879, room D

Session 1—8:30 a.m.—noon

Session 2—1:15—4:45 p.m.

BS3002-A—"Entering and approving expense reports"

March 4, 10, 16 or 18

Bldg. 671, room 2301—10—11 a.m.



NEWS YOU CAN USE

Laser eye exams among expanded Vision Services now available

Vision Services now offers laser eye exams, magnifiers and binoculars, and specialized eyewear for computer, laser and safety needs. Timothy Dalby and Alan Milano, Hazards Control Department optometrists, invite Lab employees to tap into the wealth of resources offered through the Lab's Vision Services Office, located in the Health Services Bldg. 663.

Laboratory employees and students can now get their required laser eye exams at Vision Services. "We really provide a great service to the employees. With our state-of-the-art retinal camera we can typically do the exam without dilating the patient," Dalby says. "This lets the person be in and out of the office in about 45 minutes. They can get on with their day without ever having to leave the Laboratory."

"Also, we can show folks what the inside of their eyes look like," says Milano. "People usually find the whole experience to be easy and informative."

And if you wonder what might happen if you fail to wear the proper eye gear while working with lasers, just take a look at a picture of macular damage that Dalby has in his office.

If you need magnification aid for your work task, or if you are partially sighted, Vision Services invites you to try their loaner program and check out the equipment for use. Devices like stand magnifiers, handheld magnifiers and monocular and binocular telescopes are just a few of the effective items that are available to employees.

Computer glasses are also available through the office. These special glasses have prescription lenses designed to decrease or prevent symptoms associated with extended computer

use, such as eye, neck or shoulder strain. A computer workstation ergonomic evaluation is needed to obtain this type of eyewear.

Of course, laser safety eyewear is also available through the office. If you require prescription laser eyewear, the Laser Safety Officer or Deputy Laser Safety Officer will place an order through the Vision Services Office. You can obtain non-prescription laser goggles with the appropriate wavelength attenuation from the Laser Safety Officer on the ES&H Team that supports your group.

Also, prescription and non-prescription safety glasses are provided to employees who are required to use eye protection. A variety of updated frame styles is available. Side shields are also dispensed with every pair of safety glasses.

Finally, if you need prescription eyewear inserts for your respirator, with help from the Lab's respirator shop and your current prescription, you'll be on the way to a perfect fit.



JACQUELINE MCBRIDE/NEWSLINE

Alan Milano, Hazards Control Optometrist, conducts required laser eye exams with a state-of-the-art retinal camera that lets employees view the inside of their eyes.

To see clearly and stay safe, visit the Vision Services Office located in the Health Services Bldg. 663.

If you have questions or wish to schedule an appointment, call 2-5190.

To learn more about the Vision Services Office and how to obtain a laser eye exam, magnification aids, or occupational eyewear, go to the web at http://www-r.llnl.gov/es_and_h/safety_glasses/index.html.

Technical Meeting Calendar

Friday
25

PHYSICS AND ADVANCED TECHNOLOGIES/H-DIVISION

"Quantum Molecular Dynamics Simulations of Matter Under Extreme Conditions," by Stephane Mazevet, LANL. 11 a.m., Bldg. 219, room 163. Common use facility. Foreign nationals may attend. Contact: Eric Schwegler, 4-3098, or Paula Peterson, 4-4844.

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Flash-Bang," by Dave Dearborn, LLNL/PAT/V Division. Noon, Bldg. 319, room 205. Property protection area. Foreign national temporary building access procedures apply. Contact: Wil van Breugel, 2-7195, and Lisa Lopez, 3-0250.

DEFENSE & NUCLEAR TECHNOLOGIES: DNT COLLOQUIUM

"Application of Monte Carlo Methods for QMU (U)," by Bill McLean. 2 p.m., Bldg 132N, auditorium, room 1000 (SRD/SP access required) Contacts: Grant Bazan, 2-6524, or Anita Williams, 2-4550.

Monday
28

UNIVERSITY RELATIONS PROGRAM

"The Flux Organization and Plasticity of Metabolic Networks," by Eivind Almaas, University of Notre Dame, 10 a.m., Bldg. 219, room 163. This seminar will be presented as part of the two-day interview process for the Lawrence Fellowship. Property protec-

tion area. Foreign national temporary building access procedures apply. Contact: Cheryl Kuks, 3-5643.

ICF/HEDES

"PTW Material Strength Model," by Dean Preston, LANL. 10:30 a.m., Bldg. 235, room 1090 (Gold Room). Contact: Bruce Remington, 3-3712, or Anika Rodda, 2-6377.

CHEMICAL BIOLOGY AND NUCLEAR SCIENCE/BIOSECURITY & NANOSCIENCES LABORATORY

"Activity-Based Proteomics," by Ben Cravatt, Departments of Cell Biology and Chemistry. Scripps Research Institute, La Jolla. 2 p.m., Bldg.151, room 1209, Stevenson Room. Foreign nationals may attend if approved plan is on file, which includes Bldg.151. Contacts: Katie Thomas, 2-7903, Ted Tarasow, 3-7241, or Jeff Tok, 3-1549.

COMPUTING APPLICATIONS AND RESEARCH DEPARTMENT/ COMPUTATION

"Programs in Homeland Security at the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS)," by Fred S. Roberts, DIMACS Director, Rutgers University, 9 a.m. Bldg. 451, room 1025, White Room. Contact: Scott Kohn, 3-5194, or Terry Garrigan, 3-6209.

Tuesday
1

NAI AND COMPUTATION

"A New Theory of Neocortex and its Implications for Machine Intelligence," by Jeff Hawkins, Redwood Neuroscience Institute.

10:30 a.m., Bldg. 123 auditorium. Contact: James R. McGraw, 2-0541, or Char Paulo, 3-3730.

WEDNESDAY
2

UNIVERSITY RELATIONS PROGRAM

"Making Movies of Molecules with Femtosecond Electron Diffraction," by Bradley Siwick, FOM Institute for Atomic and

Molecular Physics (AMOLF). 10 a.m., Bldg. 219, room 163. This seminar will be presented as part of the two-day interview process for the Lawrence Fellowship. Property protection area. Foreign national temporary building access procedures apply. Contact: Cheryl Kuks, 3-5643.

Friday
4

INSTITUTE FOR GEOPHYSICS AND PLANETARY PHYSICS

"Ultraluminous Infrared Galaxies as seen by the IRS on Spitzer," by Lee Armus, California Institute of

Technology, Spitzer Science Center. Noon, Bldg. 319, room 205. Property protection area. Foreign national temporary building access procedures apply. Contact: Wil van Breugel, 2-7195, or Lisa Lopez, 3-0250.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Please submit your meetings via the new Technical Meeting Calendar form on the Web, located at <https://www-r.llnl.gov/tmc>. For information on electronic mail or the newsgroup llnl.meeting, contact the registrar at registrar@llnl.gov.

Science on Saturday studies stars, spectroscopy

“Plasma Spectroscopy — Fingerprinting the Universe,” will be presented by Don Correll, LLNL physicist, and Dan Burns, Los Gatos High School teacher, on Saturday (Feb. 26) at 9:30 a.m. at the Amador Theater, 1155 Santa Rita Road, Pleasanton. The talk is part of the Lab’s popular “Science on Saturday” series that runs through March 5.

During this lecture, audience members will learn how scientists use spectroscopic measurement of light to study the stars and conduct cutting-edge fusion energy research. In addition, they will learn how to construct a spectroscope.

The series of free lectures and demonstrations are geared for students in middle through high school. Each presentation in the series is a collaboration between a Lab scientist and a science teacher and is aligned with the California Science Standards.

There is no pre-registration, and seating is on a first-come, first-served basis. Seating quickly filled at last week’s presentation so attendees are advised to come early.

Directions, maps, and a complete list of lectures are available at <http://education.llnl.gov/sos/> “Science on Saturday” is presented by LLNL’s Science and Technology Education Program, and Sigma Xi, Livermore Chapter. For additional information, contact Richard Farnsworth at 2-5059.



Final Lecture in ‘2005 LECTURE SERIES’

March 5th — “From the Big Bang to California: Observations of the Universe,” presented by Wil van Breugel, LLNL astrophysicist, and Tom Schfler, Granada High School teacher.

Learn about some of the most recent discoveries in astronomy.

Healthy eating is subject of next ‘Living Well’ talk

Jodi Bjurman, R.D. will present “Life in the Fast Lane: A Guide to Healthy Eating” at noon Wednesday, March 2 in the Bldg. 361 auditorium.

Know the facts. Build a strategy. Launch the attack. Jodi Bjurman, registered dietitian, identifies factors necessary for nutritious food preparation at home and provides options to improve healthy food choices away from home.

The presentation is the second in the Living Well health and fitness speaker series, sponsored by the Worklife Programs

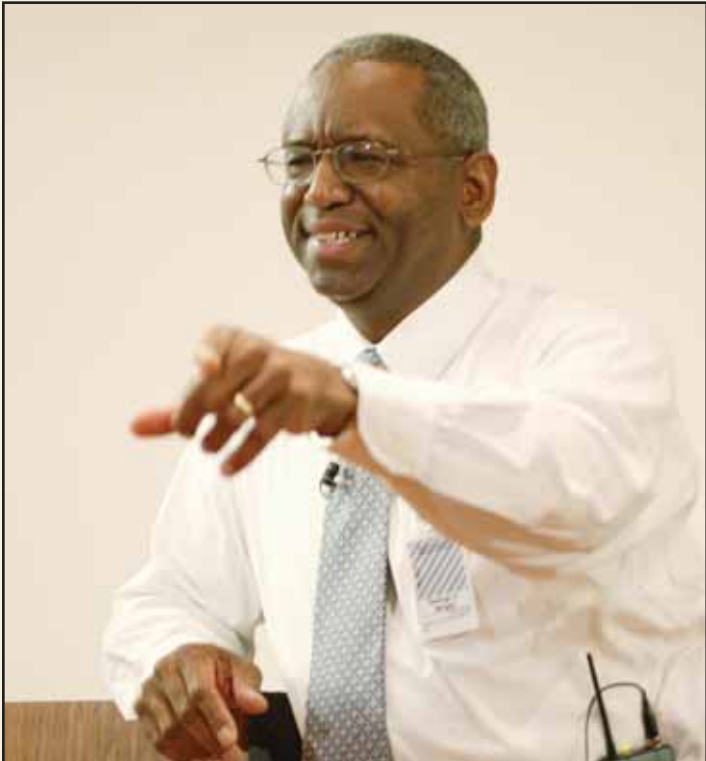
Office, Health Services Department/Employee Assistance Program/CONCERN and LLESA. The series complements Body Challenge, LLESA’s on-site exercise and health incentive program. The programs are open to employees; no registration is required. For more information, employees may call 422-9543.



Significance of Black History Month

George Wright, president of Prairie View A&M University and African-American scholar, presented “The Significance of Black History Month” Wednesday in the Bldg. 543 auditorium as part of the Association of Black Laboratory Employees (ABLE) events marking Black History Month.

His other professional positions include director of Afro-American studies at Duke University.



JACQUELINE MCBRIDE/NEWSLINE

Join your co-workers in fighting cancer



Purchase a bunch of freshly cut daffodils (10 stems) for \$10.

A vase is available for an additional \$8.

The deadline for an LLNL order is Tuesday, March 1. Delivery will be on Tuesday, March 22.

Money from this American Cancer Society-sponsored event will go to research, education and patient services.

Check the list below for the LLNL Daffodil Days volunteer nearest you who is accepting orders.

Name	Bldg.	Rm.	L-code	Phone	Name	Bldg.	Rm.	L-code	Phone
Barnes, Tracey	111	501R	L-001	3-9060	Nelson-Lee, Jennifer	5426	1009	L-621	2-5750
Bell, Christine	543	2075	L-640	3-9447	Olund, Cindy	131	2075	L153	2-3668
Berkich, Tracy	071	1020	L-102	4-4101	Owens, Cinda	191	2235	L-282	2-3392
Bireley, Kathy	543	Lobby	L-638	2-8431	Pope, Kathy	551W	2203	L-660	3-1015
Bradbury, Diana	132N	2817	L-090	2-1746	Quick, Bonnie	451	1041	L-561	2-6510
Breznik, Joanne	551W	2387	L-662	4-4101	Ray, Karyn	6526	1010	L-797	3-3106
Conrad, Janet	453	2155	L-073	2-7561	Raziano, Donna	1878	110	L-278	2-8517
Continente, Jenifer	113	5008	L-066	2-6644	Rutan, Dena	253	1536	L-384	3-0696
Delage, Lori	511	100E	L-601	4-2601	Sarlund, Nancy	140	2002	L-389	2-5072
De Marco, Barbara	142	1310	L-210	4-2272	Schuld, Joni	Accounting Representative			2-4168
Emmrich, Shirley	551E	1090A	L-654	2-6206	Sefcik, Cookie	121	1013	L-051	3-2242
Fread, Lanette	411	1422	L-518	2-9288	Shuler, Jean	113	1030	L-067	3-1909
Giannini, Julie	253	1505A	L-382	2-5129	Sorensen, Nanette	2925	101	L-397	2-9670
Grandfield, Charlene	5475	1359	L-633	3-1779	Springer, Frankie	111	332	L-016	3-6192
Greenfield, Jodi	170	1079	L-103	4-6460	Sprott, Kirsten	Co-Chairman, Daffodil Days			4-4822
Harrison, Jaquie	481	2055	L-488	2-2823	Thompson, Michelle	871	124	L-871	3-1180
Horner, Nadine	Co-Chairman, Daffodil Days			3-9051	Thompson, Starlyne	671	1314	L-650	2-7414
Jackson, Sandy	361	1579	L-441	2-9308	Twiss, Carol	571	1138	L-725	2-9395
Lindsay, Karen	321A	2100	L-337	3-5028	Watt, Maggie	335	1130	L-361	4-6247
Mahler, Florann	111	403	L-019	2-9173	Weybum, Sandy	551E	221E	L-657	2-0840
Miller, Margie	314	1216	L-432	3-0265	Williams, Anita	132N	2254	L-170	2-4550
Moy, Jenny	663	1201	L-723	2-0778	Yazzie, Darlene	132S	2322	L-182	3-7846
Navarra, Monica	1401	1011	L-200	2-0207	Ybarra, Corinne	482	2158	L466	3-9501



CLASSIFIED ADS

AUTOMOBILES

2000 - Acura 3.2TL White - loaded, 4 door, 40,000 miles. \$16,500 925-606-0480

1989 - plymouth voyager tan 108kmi, runs good, \$950. obo 925-447-1266

2003 - Toyota RAV4: Graphite Gray Pearl, 5-speed man., Sport package, Moon roof, Prepaid maintenance. Only 18k miles and \$18k (KBB). 925-819-2970

2000 - Volvo V70 XC AWD Excellent condition, White/Tan - leather, rear seat, sunroof, CD & more, 87K miles, \$15,000 925-283-2129

1997 - Thunderbird LX, excellent condition, 27k original miles, services records, excellent tires.Extended warranty.Call for more info. 510-582-2938

1994 - Nissan Altima GXE, AC, Pwr Windows & Locks, CD player, 168k miles, runs good, \$1950, 925-449-2667

1999 - Honda Accord LX Sedan. Fully loaded, leather, moon roof, V6, new tires, EXCELLENT condition. Only 68K! Asking \$11K. Must see and make offer!! 925-373-6833

1994 - Honda Civic LX,167K frwy miles, 4 dr, crz cntrl, pwred windows, orig engine & trnsmssn, clean, runs great. \$3000 / OBO. Harpree Grewal @ 3-4091 925-292-1639

1988 - Nissan 300ZX, 97K, V6, MT, 2 seater, t-tops, digital dash, power seats, runs and looks great, All records available. \$2150 925-960-0912

2000 - Saturn L2. V6, CD, power window and locks, 67,000 miles, clean. \$8,000 925-449-9250

2000 - Ford Focus LX, black, 4 dr., 5 spd. manual trans., new clutch, AC, CD, 81K, good commuter or student car, \$6,000 O.B.O. 925-447-4161

1997 - Jeep Grand Cherokee, leather, one owner, CD, AC, 124K Mil. All maintenance by Jeep Dealer, only \$5K 925-283-5995

2001 - BMW 330ci convert., silver, 5spd., navi., prem. & sport pkg., 60K mi., excellent condition. \$27,950/obo 925-846-3278

2003 - Mitsubishi Diamante 45K/mi., V6, leather, CD, ATS Digital Security System, sunroof, auto locks/windows, cruise cntrl & more! \$23K OBO. 209-485-4777

1968 - Firebird needs a good home and much work. Could be a good retirement project. Come check it out and make an offer if interested. 925-417-1179

1985 - Toyota Corolla, A/T, Gd Cond, Runs gd. Nice Commuter, 161K mi. Call after 3:00 p.m. \$1,200 510-471-2177

1995 - Dodge RamVanV8,electric seat to full bed, TV/VCR, 4 Captain, seats 7, 117K, customized interior/lites, excellent condition, Reg just paid. \$8,000.00 925-513-0160

2001 - Pontiac Firebird, 3.8L V6 auto. Leather Int, T-top, alarm, power locks/windows/driver seat, luxury interior, good mileage, excellent condition. 209-576-7764

AUTOMOBILE ACCESSORIES

Set of 4 : 5-lug Chevy wheels with 31x10.50R15LT M+S tires. \$30/EA. OR \$100/SET. 925-371-1705

Jaguar XJ rear end assembly, complete, 3.31:1 ratio non-posi. Good overall condition. \$300 925-455-0577

Ford fuel pump tank unit \$60, rear window was on 1984 Mazda, new tire on rim 205x75x15 925-735-6002

BICYCLES

New,Rocky Mountain Free-ride RM-6 Mountain Bike 18.5in. frame Marazochi Front Fork 6in., Fox rear shock 6in. Must Sell! \$1200.00 o.b.o. 925-355-9144

BOATS

1967 Sea Ray SRV-180, Chevy in-line 6 inboard/outboard with mercruiser stern-drive. \$4,200 OBO. 925-447-4797

12ft. fiberglass Potaboat. 9 Hp. Nissan enging, Fuel tank, Ors, Boat dolly, 4 Life Jackets. \$2100.OBO 925-698-5473

CAMERAS

Pentax 6x7 with 55mm, 75mm, 165mm, metering prism, standard prism, bellows lens shade, Halliburton case - \$1400 925-449-0107

ELECTRONIC EQUIPMENT

HP Color printer, hardly used. 30.00 510-537-7222

Mac G4, 1 GB/500 MHz, plus Canon MultiPASS C555 color bubblejet printer/fax/copier/scanner. \$750 OBO. 510-483-1666

Epson 1200U Perfection scanner, 1200 dpi, TRANSPARENCY ADAPTER, Mac/Win w/software, usb cable, manual, w/original box. \$20 925-837-7463

GIVEAWAY

9 month old female rottweiler, too much energy for my kids, all shots, dog house included, cant afford to give her the attention she deserves. Adolfo 209-549-7553

HOUSEHOLD

Loft Bed 1yr new,\$100.00, Computer Armoire w/file drawer, 2 shlves (one sliding),extending keybrd tray 225.00, Aluminum Shed \$325.00 925-872-6447

Cool mist humidifier, \$5. Ultrasonic humidifier, new, \$30/b.o. 925-454-0877

Like new black leather couch \$450, fifties look kitchen table W/4 chairs \$200, 2 burgundy table lamps \$25 ea. 209-239-1065

Lopi Fireplace Insert. Excellent Condition, barely used. \$1,700 obo. 925-550-3809

Hoover Dirt Finder vccum with attachment. Runs good. 20.00 510-537-7222

Barstools 30 inches seat height. Like New. Pottery Barn Napoleon style. Antique honey finish. Cost over 800.00...First 400.00 takes all three. 209-522-7628

Twin size pop-up trundle with link spring. No Mattress. \$35. 925-426-8452

REFRIGERATOR Roper/Whirlpool, Used only 1 yr. White, Freezer on top, Ice maker, New condition, \$350. 925-726-5404

Epson Stylus Color 880 printer, 1440 dpi, usb cable, Mac/PC, manual, two extra black ink cartridges, \$20. 925-837-7463

Maytag Electric Dryer \$250 -only 4 months old, white. P/U from Manteca 209-824-0820

42 inch round ash kitchen table and 4 chairs, whirlpool oven \$50, Jenn air cooktop range \$40 all in good condition. 925-462-0564

King size bedroom set complete with bookcase bed, dresser, mattress/box springs, frame, excellent condition. 209-836-5678

Bookcase, solid oak, 4 shelves. 30Wx72Hx13D. Excellent condition. \$75.00. 925-455-5985

Waterbed, waveless mattress, raised frame, headboard with mirror, shelves. \$75/obo. Also many other furniture pieces. 209-895-7050

Maytag Washer and gas Dryer. 9 years old but still runs like a champ. \$100.00/set 925-454-1881

King Size Boyd Nite Air Bed, separate lumbar air chambers, dual controls, air pump, plush padded top, wood base with drawers \$150. 925-443-0188

Simmons BackCare firm mattress CaKing size (mattress only w/o box spring). Less than 2 years of use. Very good condition, \$175. 925-373-9276

Round glass top table 45 in, 4 chairs. Grey metal frame with burnished gold

accents. Two years young; new condition. Pictures 925-513-1108

Bedroom set for boy or teen; Stanley contemporary; light oak; outstanding condition. 3 lower and upper units, headboard, nightstand. \$2000. 925-462-2197

MISCELLANEOUS

Preschool toys, games, puzzles, videos, software. Many Discovery Toy products, Reader Rabbit, and more. Good condition, low prices. 925-454-0877

Boys clothes, sz. 4/5, pants, shirts, coats, shorts sets, pajamas. Hiking boots, sz 12. Excelltn condition. \$1-\$5. 925-454-0877

One horse Doctors buggy, 4 wheel, always stored inside, good restorable condition.\$750 209-847-1231

Bird cages (2) Both are about 14in. high, one gold tone, one black. \$10 ea. 925-447-7255

Kenmore AC Unit - works good. \$150.00 925-550-3809

Diamond Ring-Main Stone Princess .96 pts, G color, VS2 clarity. Each side Princess .20 pts each, G color,VS2 clarity. Platnum \$3600 OBO 925-606-0309

4 excellent condition dining chairs with upholstered seats \$45 all. 925-735-6002

Train table and toy wooden train set. 3ft.x4ft. table top with 2 trundle drawers and 100+ piece train set. Orig. ~\$120 at Costco. Asking \$60. 925-556-9819

New 5x4 bronze anodized window \$100.00, Chain like 1/4 ton block and tackle \$100.00, pair of audio speakers \$50.00 925-462-0564

New 225 Lincoln arc welder extra leads/cords and welding rod. On rolling cart \$400 408-314-4339

Do you need a pet sitter while you are out of town? Need someone to house-sit? Call Janet at 925-580-9833 or 925-443-9028

Want to Fly? No License required. Buckeye Powered Parachute. \$5500.00 with trailer. 925-516-7849

Nordic Trac Ski exercise machine \$20.00 925-443-0188

MOTORCYCLES

2003 - JR jacket, cordura with hard armour, black and red, size lg 44-46. JR Blaster perforated leather pants, size 38, hard armour. \$90 ea 209-835-4281

1986 - Suzuki 185 quad runner. Very good condition. \$1000 OBO Contact Thomas 925-443-4336

1976 - Honda CB400F Classic, Luggage rack, windshield. Make Offer 925-443-0188

MUSIC INSTRUMENTS

Piano, Storey & Clarke spinnet. Needs tuning. \$220 OBO, must sell. 209-830-0762

Flute: Gemeinhardt conservatory model; silver head joint; closed hole. Recently overhauled; excellent condition; rich sound. \$500. 925-462-2197

PETS & SUPPLIES

Labrador AKC black pups vet check 1st.shots champ line MH JH \$550. 925-447-3912

RECREATION EQUIPMENT

Gift certificate for one night stay, including tax, for any night at Anaheim Marriott near Disneyland. Well over \$150 value. \$75. 925-648-0671

HARVARD FOOSBALL TABLE, hardly used, great condition, essentially brand new, nice quality, I can email pictures if desired, you pick up \$150 obo 925-580-2869

Used saddles, 2 Western and 1 English. Make offer 925-443-9929

Pilates Machine. Never used. Comes with how-to video. Paid \$200-selling for \$100.

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

925-240-9992

Snowboard - beginners board with bindings. Excellent condition. 142 cm. \$50 Snowboard boots - Good condition. Size 4. \$20 209-836-3481

TREADMILL, Stamina 8355 Manual treadmill, from Sears, still NIB never assembled. \$150.00 Call for more info. 209-833-5033

Weekender P/U camper by Skyline. 11 1/2ft.stove, freezer, roof air, microwave huge queen bed. Elect. swingout jacks. \$7000 OBO contact Jim 209-833-7604

1972 Jeep CJ-5 lifted, engine solid, smog-exempt, needs body work. \$1950/OBO. 209-456-6947

Holiday Rambler Fifth wheel, 28ft, 2000 with slide out. 3-way refrigerator, stove, oven, microwave, heat/air. Like new. Paid \$44842 sell for \$25000. 925-443-0188

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/ tsmf>.

Farmington - Car pool. AWS T-F 6:00-4:30 Leave Farmington @ 4:30 AM 209-785-1215, ext. 2-7637

Orinda - Lamorinda carpool seeks 4th rider/driver. Meets near St. Stephens and Highway 24. Lab hours 8am-4:45pm 925-253-0498, ext. 2-9823

SERVICES

Painting, Interior, exterior.Get low season now. Excellent reputation, excellent workmanship. Over 25 years experience. 510-537-7222

Need a house cleaner who is reliable? Call Janet at 925-443-9028 or 925-580-9833

SHARED HOUSING

Livermore - furnished room for rent. Clean/quiet/pool. Close to bus/bike path. No pets/no smoking. \$550.00/month. Share utilities. Deposit. Mature adult. 925-449-1128

TRUCKS & TRAILERS

1994 - Ford Ranger ext cab with camper shell sliding window bed liner new shocks 5 speed 6 cylinder 150550 miles PW/PL am/fm/cd great cond \$4000 408-314-4339

1967 - Custom Series Chevy Truck, new motor and transmission - cost \$5,000 sell for \$2,500 obo. 925-550-3809

1989 - Ford F-150 pick-up. 110,00 miles, great condition, runs beautifully. Automatic transmission with overdrive, contractors toolbox included. \$1950 925-443-2095

1995 - Chevy 2500 ex/cab,4x4,8 ft. bed, diesel engine,runs excellently, gooseneck hitch,great shape, \$8500 209-832-7655

1954 - Studebaker pickup, in good restorable condition, straight sheet metal, not running not orig drive train. Would make a great hot rod etc. \$350 209-847-1231

1999 - Ford Ranger XLT extra cab w/camper shell. V6, AT, AC, keyless remote, am/fm cassette, power everything. Great condition, 88k miles. \$6950. 925-846-3653

1996 - Ranger, XLT, extra cab, long bed, good tires, AC, cassette, bedliner. Runs good. Make offer. 510-537-7222

1993 - Chevy 1/2 ton stepside shortbed 4x4, 350 engine, flowmaster exhaust, newer transmission \$8,000 call 925-516-6675 or 925-250-7918 925-634-1660

1995 - Class C GulfStraem Motorhome ultra 102 Great shape, Many Extras, Sleeps 8, Rear walk around Queen Bed, 49000 miles, NADA low retail \$27,500 OBO. 925-698-5473

1997 - Dodge Club Cab 4x4 New A/T Tires and Wheels Excellent Cond. Auto/Air/Pwr. win/locks 74,000 miles.5.9 ltr. 8,000.00 O.B.O. 209-992-6027

1999 - 18 foot car trailer steel bed extra wide 12000lbs gvw storage box, new 8ply tires and spare 4 wheel electric brakes ,12000lbs warn winch, \$4500 408-314-4339

1968 - Ford F-250 360 v8. manual 4 speed. Was running rough 3 months ago. Have not tried to start since then. Rust in front fenders. \$300 and haul it away. 209-368-4286

1972 - Jeep CJ-5 lifted, engine solid, smog-exempt, needs body work. \$1950/OBO. 209-456-6947

1996 - 5th wheel Nash 21.5 ft. real clean, sleeps 6. Small enough to fit into State Park campgrounds. \$5000 925-447-7751

1953 - Willys pick-up4x4 90%comp,info,pics keith_riley@sbc-globlai.net 555-555-5555

VACATION RENTALS

Solana Beach/Del Mar - Oceanfront condo, Deluxe 2 br., 2 1/2 ba., fully equiped, tennis, pools jacuzzi, gated and covered parking, near San Diego attractions 925-443-2271

Soooo cute beach cottage in Santa Cruz near boat harbor. 2 bedr, 2 bath, spa. 4 blocks to beach. Sun-Thur special thru March. \$ 75/night. 925-245-1114

Above Arnold on Hwy 4. 20 miles from Bear Valley. Nice 4 bdrm, 2 bath cabin. Weekday specials \$75/night through April. 925-245-1114

Arnold Cabin near Bear Valley, hot tub, many amenities, sleeps 14. March 11-13, \$550. Other weekends in April. Reserve now for summer. 209-478-0340

CABO SAN LUCAS - 4/16-23, 2bdrm/2bth & kitchen, sleeps 6-8, room view Sea of Cortez & Lands End, 5 min walk to town, prime site/time. \$1,050.00 Norm rate:\$320/night 916-488-4278

Perfect location for skiers! Tahoe cabin for rent 2 blocks from Heavenly. Sleeps approx 8 adults. \$400/wk, \$200/wknd. Call Jan or Steve for details. 925-240-1615

Puerto Vallarta, Mexico - Villa del Palmar, 1 bdr, first class resort on the beach. Feb 27-Mar 6. This accomodation is worth \$1000+. Will sacrafice for \$200. 510-683-9433

San Diego Area (Carlsbad), or Palm Springs, - Choose the date. Call for dates. 925-449-6048

Kona Hawaii - Condo for rent 4/15 to 4/29. See www.kona-billfisher.com for pix and details. \$500/wk. Warm and Sunny in Kona! 925-634-4831

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, comfortably furnished, all amenities,close to all skiing,RESERVE NOW FOR SKIING/WINTER FUN!! 209-599-4644

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

WANTED

wanted couch table, wall hugger side table, and square shape glass coffee table with end table 925-443-9179

Honda or Vespa motorscooter, street legal to put on the bumper of my motorhome. 209-847-1231

Phone help for E machine computer (500 tower) 925-735-6002

Alison Krauss and Union Station tickets wanted (2 or 3) for March 12 in Berkeley 925-280-5562

1967 or Newer Chevrolet 3/4 - 1 Ton, Long bed, pickup truck, good to excellent condition, \$3,000 or less. 925-443-7215

Jungle-like plants (real or artificial) for fundraiser to benefit Sunset School. Need by/before Fri., Feb. 25th! 925-456-7828

Part-time live-in au pair for family with three sons. Must be honest and trustworthy. References a must. 925-454-1881

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

TRUCK

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jacked vehicles from becoming “bombs on heels.”

“This latest device represents the next chapter technology we’re developing to help prevent rrorism,” Ron Cochran, Laboratory executive fficer, told media and guests who turned out for e Tuesday afternoon demonstration at the inter- ection of Third Street and West Perimeter Drive.

Noting that the large milk truck that crashed to the state capitol in Sacramento in January 001 caused some \$24 million in damage, ochran said protecting sensitive buildings and cilities, such as power plants, has since become n increasing concern for law enforcement.

The earlier device would allow a highway atrol car to stop a speeding tanker by tapping a ar bumper and triggering a “guillotine” mecha- sm that would shear the air brake line and stop e vehicle, Cochran said. “The technology we’re emonstrating today is designed for site protec- on.”

Cochran introduced consultant Bill Wattenburg as the “father of this technology.” The ab’s David McCallen, along with Chad Noble nd Pat Lewis, helped develop the technology.

Wattenburg said the shoebox-size, tamper- sistant device could be mounted on a truck and e explained how the air brake valves can be set ff by radio signals from either an electronic gate, nce or by a remote-control button.

By enabling remote-control technology, the evice can be used to protect buildings such as overnment facilities, power plants and stations, nd other areas where sensitive materials or criti- al infrastructures are housed.

“This technology is another great example of ow the Laboratory is working to ensure homeland ecurity,” said Director Michael Anastasio.

The remote-controlled device marks the fourth eneration of the truck stopping technology. When debuted in 2001, it was a simple impact mecha- sm. Since that time the device has gone through gorous testing to develop tamper-resistant and il-safe systems.

Laboratory researchers have taken the push- utton remote technology one step further by sing a system of antennas that could be placed ound various buildings. If a runaway truck tried crash through the gates, the antennas, operating n a continuous signal, would activate the technol- y as the truck passed by, preventing any attack.

“This is a great way for facilities that have ucks routinely coming on site to add a layer of rotection,” said McCallen, principal investigator n the project. McCallen envisions placing the chnology on a vehicle at a facility’s inspection oint. The device would be in a locked and tamp- -proof box that could be removed when the truck ft the facility.

McCallen and his team have taken into consid- ation interference from other radio frequencies, uch as a cell phone or other wireless technology, prevent hackers from interrupting signals or set- ng the technology off.

The prototype devices cost approximately 800 apiece. The Laboratory, CHP and a commer- al truck company already are testing an earlier mpact version of the device on California high- ays. To have the devices automatically equipped n all commercial transportation vehicles would robably require legislation.



JACQUELINE MCBRIDE/NEWSLINE

Top: Patrick Lewis of Electronics Engineering shows reporters the shoe box-size device mounted behind the cab of the truck that allows remote control application of the vehicle’s brakes.
Center: Consultant Bill Wattenburg and Ron Cochran, Lab executive officer, address reporters during the truck stopping device demonstration.
Bottom: Lab Protective Force officer Christopher Borzone demonstrates the remote control device.

DOE General Counsel Lee Liberman Otis resigns effective March 1

U.S. Department of Energy (DOE) General Counsel Lee Liberman Otis has submitted her resignation effective March 1.

While at the department, Ms. Otis formulated nd personally led DOE's legal strategy on many igh-profile initiatives including the successful com- lection of the Yucca Mountain siting process follow- ng two decades of study; the establishment of the epartment's authority to proceed with key aspects f accelerated cleanup of former nuclear weapons ites; and the removal of plutonium from DOE's Rocky Flats facility to allow the on-schedule closure

of the first major former weapons production facili- ty and the accomplishment of major nonprolifera- tion objectives.
“Lee has been an important member of the Department of Energy team and has served DOE and the Administration well,” said Secretary of Energy Samuel W. Bodman. “Her dedication and expertise will be missed, and we wish her all the best in her future endeavors.”
Before joining DOE, Ms. Otis had a distin- guished legal career including clerking for U.S. Supreme Court Justice Antonin Scalia on the U.S.

Court of Appeals and the Supreme Court; working in various positions at the U.S. Department of Justice; serving as Associate White House Counsel under President George H. W. Bush; and serving as Chief Counsel for the Subcommittee on Immigration of the U.S. Senate Judiciary Committee.
She has taught at both Georgetown University and George Mason University. Ms. Otis is a grad- uate of the University of Chicago School of Law and is a member of the bar in New York and Washington, D.C.

Energy Secretary Bodman testifies before House Science Committee

Following are highlights of Energy Secretary Samuel Bodman's testimony before the House Science Committee Feb. 16:

Chairman Boehlert, Congressman Gordon, members of the Committee, thank you for welcoming me back, this time in my new role as Secretary of Energy. I am grateful for the opportunity to discuss the President's fiscal year 2006 budget for science at the Department of Energy.

I come before you this morning with tremendous enthusiasm for the Department's mission to maintain and enhance America's leadership in science and technology.

That responsibility is best illustrated by the Department's Office of Science stewardship of our nation's scientific infrastructure through a system of 10 world-class national laboratories. In addition to the Office of Science, the Department has a robust research-and-development portfolio extending across our programs in fossil energy, nuclear energy, renewable energy, energy efficiency, environmental management and national security.

The Department is the single largest supporter of research in the physical sciences, and as such, we have a special and particularly important role in this field of scientific endeavor.

The budget request for the Office of Science of \$3.5 billion maintains a solid foundation for scientific discovery. In light of the emphasis that this budget places on deficit control, this level of funding for the Office of Science signals a strong com-

mitment on the part of the Administration to invest in the promise of basic research for discoveries that leapfrog today's technology.

The priorities we have set are clear. Through the 2006 Budget, we will fully support Presidential initiatives in fusion and hydrogen, we will continue strong support for other Administration priorities such as nanotechnology and information technology, we will complete ... on time and within budget ... unique scientific facilities that will maintain and enhance research in areas we believe offer the greatest potential for broad advances in future energy technologies. These scientific facilities were prioritized in our 20-year facilities outlook, announced in November 2003.

We are also carrying forward with U.S. participation in the International Thermonuclear Experimental Reactor project to pursue the potential of energy from nuclear fusion.

Our FY 2006 budget will also bring four of our five nanoscale science research centers on line, providing tools found nowhere else in the world for exploration at the atomic level, offering huge potential for the discovery of entirely new ways to build materials.

The Office of Science also will fully fund the National Energy Research Scientific Computing Center, a key center for capacity supercomputing used by roughly 2,000 researchers every year, and a separate open-access leadership class computing facility focused on providing the capability to

carry out a limited number of massive simulations not possible on any other civilian supercomputer in the U.S.

While this hearing focuses on civilian science and technology programs that are authorized by this Committee, I want to note that significant contributions to science also occur at the National Nuclear Security Administration's nuclear weapons laboratories, which are under the jurisdiction of the Armed Services Committee. Work at the weapons laboratories primarily focuses on stockpile stewardship, and the Office of Science and the NNSA work together on a number of activities.

The President's budget request for the Office of Science allows us to build on the solid foundation created over the last four years, propels us into new areas of scientific leadership, and maintains America's leadership in science.

For the energy secretary's complete testimony, check the Web at www.energy.gov

DDLs

Continued from page 1

universe today. Launched in 2001, the Wilkinson Microwave Anisotropy Probe (WMAP), NASA's follow-on to COBE, gives a much sharper picture of these fluctuations and provides detailed information about the early evolution and current state of the universe.

Edward "Ned" Wright was a junior fellow at Harvard, where he received his Ph.D. in astronomy, and then became an associate professor at MIT prior to joining the UCLA faculty in 1981. His work on COBE earned him NASA's Exceptional Scientific Achievement Medal in 1992. He is now a working on WMAP, which is

making a detailed study of cosmic microwave background temperature differences around the sky. Wright is also an interdisciplinary scientist on the Spitzer Space Telescope, launched in 2003, and the principal investigator on the Wide-field Infrared Survey Explorer (WISE), to be launched in 2008.

The presentation will be rebroadcast on Lab TV Channel 2 Thursday, March 10 at 10 a.m., noon, 2, 4, and 8 p.m. and Friday, March 11 at 4 a.m.

For more information see the DDLs website: <http://lsto.llnl.gov/DDLs/index.html>.

Links to other websites related to the DDLs presentation are at <http://www.astro.ucla.edu/~wright/intro.html>.

AAAS

Continued from page 1

the key elements that must be resolved to establish the practicality of fusion as an energy source.

That same day, Ben Santer presented "Detection and Attribution of Climate Trends" in a session on "Detection and Attribution-Methods and Results-of Climate Trends in Temperature Sensors, Species and Glaciers." The focus was whether the responses of plants and animals are the result of natural or anthropogenic climate changes-or both.

Also on Saturday, Livermore's Ken Caldeira spoke at a session on "Energy for a Future without Carbon Emissions" with a presentation entitled "Potential of Carbon Sequestration in a Non-Carbon Dioxide Energy World." The session provided an assessment of the potential for energy sources that can meet the world's energy needs for the coming centuries, without releasing carbon dioxide to the atmosphere.

Concurrently Stephan Velsko spoke on "Physical and Analytical Chemical Analyses: A Key Component of Bioforensics" as part of a Homeland Security & Emerging Technology track "Stopping the Bio Bad Guys...." He addressed some of the difficulties of effective biological threat detection and current research to improve our ability to find biological threats.

In addition to lectures, this annual meeting included career workshops, continuing education programs, an exhibition with exhibitor workshops,

Northern exposure



JACQUELINE MCBRIDE/NEWSLINE

John Nasstrom (center) of the Energy and Environment Directorate's Atmospheric Science Division, discusses the capabilities of the Lab's National Atmospheric Release Advisory Center with Arthur Carty (right), the Canadian National Science Adviser and Richard Stephenson of the Canadian Consul. The tour last week was sponsored by the Center for Global Security Research.



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